• • • •	 	Clai	

Application No.	Applicant(s)	
09/827,501	BRUMM ET AL.	
Examiner	Art Unit	
Kwang B. Yao	2667	

7	Rejected
=	Allowed

-	(Through numeral) Cancelled
÷	Restricted

N	Non-Elected
-	Interference

A	Appeal
0	Objected

		Щ					j			L		
Cla	im	Date										
Ula		,	_			Jau	-		Г	Н		
Final	Original	-3/16/18-										
	1	V			-	┝	-	\vdash	\vdash			
-	2	1	H		\vdash	\vdash	_	-	H	\vdash		
	3	H	_		_	_	_	_	-	\Box		
	4	H	 						1	\vdash		
	5	H	┢	\vdash						$\overline{}$		
\vdash	1 2 3 4 5 6	Н				-		\vdash	-	H		
	7	H						\vdash		П		
	8	11	Г						T			
	9	11										
	10	11	\vdash	Г								
	11											
	12	Π										
	13											
	13 14 15											
	15											
	16											
	16 17											
	18	\prod										
	19	\coprod										
	20											
	21											
	22											
	21 22 23	Ц										
	24 25	Ш										
	25	Ш										
	26	1			_	ļ		_	_	Ш		
	27	1		_	_	_	_			Ш		
	28 29	1			_				<u> </u>	Ш		
	29					_		_		Ш		
	30	_		_	_			_	_	Ш		
	31											
	32			_	_	_	_	<u> </u>		Н		
	33			_	_	_		_				
<u> </u>	34			┝	<u> </u>	_	-	<u> </u>		Н		
\vdash	35	-	_	⊢	⊢	⊢	 	\vdash		\vdash		
<u> </u>	36	├-	\vdash	⊢	 	├		<u> </u>		Н		
	37	₩		-	-	<u> </u>	-		├	$\vdash \vdash$		
-	38 39	-	┢	├-		├-		-	-	Н		
	40	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	_	\vdash	\vdash		
-	41		 		-	<u> </u>	 	-	\vdash	Н		
<u> </u>	42	\vdash	 	-	├-		\vdash		\vdash	Н		
<u> </u>	43	\vdash	\vdash	\vdash	\vdash		\vdash		-	\vdash		
	44	\vdash	\vdash	-	-	-	 	-	-	Н		
-	45	\vdash	\vdash	\vdash	 	-	├	-		H		
\vdash	46	-		├-	 	\vdash	-	-		\vdash		
$\vdash \vdash$	47	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	_	-	Н		
\vdash	48	-	\vdash	\vdash	┢	H	\vdash	-	-	H		
\vdash	49	\vdash	⊢	├─		-	-		\vdash	H		
	50	-	\vdash	 			\vdash		<u> </u>	H		
ı			,	i	i	1 !						

		Ц	Ш.				j			Ц									_			
Cla	im	г				Date			-	\neg	ſ	Cla	im				_	Date				
Ulc		,	1	1			ř—	$\overline{}$		Н		010		1	\neg	-		-316	Ĭ-			\dashv
=	펼 .	1.66	3	1				ŀ		Ш		_	a	ı								
Final	<u>:</u>	\mathbf{x}	5	ł						Ш		Final	iĝ									
_	Original	3	4		1							ш	Original									
		H	}_	├		-	<u> </u>	<u> </u>	H	Н					\dashv		_		H	H	\vdash	\dashv
_	1	V	╀	├	_	├	_	<u> </u>	\vdash	Н			51	\dashv			_		<u> </u>	_	\dashv	႕
-	3	H	┼	├-	_	_	-	-	-	Н			52 53	\dashv					⊢	\vdash	Н	\dashv
		H	┼	-	_	-	-	<u> </u>	H	Н				\vdash		_	_	_	-	\vdash	\dashv	\dashv
	4	H	╀	╁	_	<u> </u>	-	ļ	\vdash	Н			54	\vdash	\dashv		_	_	-	H		-
_	5 6	H	╀	⊢		├	-	⊢	-	Н			55 56	\vdash		_		_	<u> </u>		\vdash	-
		₩	╁	\vdash		_	<u> </u>	⊢	H	Н			57		-		_		<u> </u>	\vdash	\dashv	\dashv
	7	#	╀	├	-	-		⊢	H	Н			58	\dashv		_	_		-	-	\vdash	\dashv
	8 9	₩	╀	⊢	H	-		-	\vdash	Н			59						<u> </u>			\dashv
		₩	╀	⊢	⊢	├-	-			Н			60		\dashv				┝	\vdash		\dashv
	10	₩	╀	├-		-	1	-	-	Н				\vdash	\dashv		_		\vdash	\vdash	\vdash	
_	11 12	╫	╁	\vdash	\vdash	\vdash	-		\vdash	Н			61 62	\vdash			-	<u> </u>	\vdash			\dashv
		╫	+	\vdash	-	-		\vdash	H	\vdash				\dashv			_	<u> </u>	-	-	$\vdash\vdash$	\dashv
	13 14	₩	\vdash	\vdash	\vdash	\vdash	 -	 	\vdash	$\vdash\vdash$			63 64	$\vdash \vdash$	{		—	<u> </u>	 		\vdash	\dashv
	14	H	┼	⊢	-		-	⊢	H	Н	1		65				-		⊢		\vdash	\dashv
_	15	₩	╀	\vdash	├	 			\vdash	Н			65	\vdash	\dashv	_	_	_	\vdash	\vdash	Н	\dashv
	16	₩	╀	├	 	├-	├	\vdash	H	Н			66 67	$\vdash \vdash$	_		\vdash	<u> </u>	-	\vdash	$\vdash\vdash$	\dashv
	17	₽	+		\vdash	├—	1	\vdash	\vdash	Н						_		_	\vdash	\vdash	\vdash	\dashv
	18	₽	\vdash	├		 	_	\vdash	\vdash	Н			68	\vdash				<u> </u>	<u> </u>	\vdash	Н	\dashv
	19	₩	+	\vdash	 		-	<u> </u>	\vdash	Н		-	69	\vdash			<u> </u>	ļ	\vdash	\vdash	\vdash	\dashv
	20	#	-	<u> </u>		_			_	Н			70	\dashv	\dashv				H	<u> </u>		\dashv
	21	#	╄-	├-		\vdash	_	\vdash	\vdash	Н			71	\dashv				_			\Box	
	22	₩	╄	├	_		<u> </u>	<u> </u>	\vdash	Н			72		\dashv							_
	23	H	1	┝	_	_			-	Н			73	\dashv	-				<u> </u>		-	_
	24	Н	-	<u> </u>			_		_	Н			74	\dashv					<u> </u>		\vdash	\dashv
	25	Н	-	⊢	_	_	_	-		\vdash			75						_		\vdash	
	26	H	+		-	<u> </u>		<u> </u>		Н			76	_	\dashv				_	⊢		\dashv
	27	H	┼	├-	-	_	-	 -		H			77	\dashv	_				\vdash	-	Н	-
	28	1	+-	┝		\vdash	H	<u> </u>	<u> </u>	H			78	\dashv				_	H	\vdash	-	-
	29	-	 	┢	-			<u> </u>	\vdash	Н			79	\dashv	\dashv				-			\dashv
	30	\vdash	╀	├ ─	├—				\vdash	Н			80	$\vdash \vdash$	-			_	\vdash	\vdash	Н	\dashv
	31	H	+	⊢	\vdash	\vdash	⊢	\vdash	-	$\vdash\vdash$			81			_	_	<u> </u>	\vdash	\vdash	$\vdash\vdash$	\dashv
	32	\vdash	+	\vdash	\vdash	\vdash	\vdash	 		\vdash			82					_	\vdash	\vdash	\vdash	\dashv
	33	-	+	1	⊢	\vdash	<u> </u>	<u> </u>		Н			83	\dashv	-	_			\vdash	\vdash	Н	\dashv
_	34	-	+	⊢	├	├	 	 	-	Н			84	$\vdash \vdash$	\dashv	-			-	 	Н	\dashv
_	35	-	+	\vdash	⊢	⊢	 	\vdash		$\vdash\vdash$			85	$\vdash \vdash$	\dashv	-		<u> </u>		\vdash	Н	\dashv
	36 37	⊢	+	\vdash	 	├		 		Н			86	\vdash	\dashv	_		<u> </u>			Н	\dashv
-		⊢	┼-	 	 	\vdash	-		\vdash	$\vdash\vdash$			87	\vdash			_	_	\vdash	\vdash	$\vdash \vdash$	\dashv
	38	-	╂	├-	-	-		Η.	<u> </u>	$\vdash\vdash$			88	$\vdash \vdash$	\dashv			<u> </u>	-	-	$\vdash \vdash$	\dashv
_	39	\vdash	+	\vdash	\vdash	\vdash	\vdash	H	H	\vdash			89	\vdash		-	_	-	\vdash	\vdash	\vdash	\dashv
_	40 41	-	╁		-	-	-	<u> </u>	H	Н			90 91	\dashv	\dashv	-		<u> </u>	 	<u> </u>	\vdash	\dashv
_	41	\vdash	┢	-	├	\vdash		H	H	H			92	\vdash			_		├	\vdash	\vdash	\dashv
	42	\vdash	╁	\vdash	\vdash	\vdash	\vdash	-	\vdash	\vdash			93	-		-	_		 	\vdash	\vdash	\dashv
	44	\vdash	+	├	-	-		-	\vdash	\vdash			94	\vdash	\dashv			-	\vdash	\vdash	\vdash	\dashv
_	45	\vdash	+	├-	 	-	-	-	\vdash	\vdash			95	\vdash	\dashv	-	-			-	\vdash	\dashv
_		-	+	├	<u> </u>	\vdash	-	\vdash		\vdash			96	\dashv	\dashv	-	_	-		\vdash		\dashv
-	46 47	-	+	\vdash	⊢	 	\vdash		\vdash	$\vdash\dashv$		-	97	\dashv		-		-	\vdash	\vdash	\vdash	\dashv
-	48	-	╁	\vdash	<u> </u>		-			\dashv			98	\dashv					—			긕
-	48	-	╁╌	-			-		H	\dashv	·		99	\dashv		-	_			-		\dashv
-	50	⊢	╁	├	<u> </u>	\vdash	\vdash	\vdash	\vdash	$\vdash\dashv$	ŀ		100	\dashv		-	-	-	H	Н		\dashv
	JU	L_		Ц_	Ц.	<u> </u>	_	L	ш	ш	L		100							لب	ш	

Cla	aim	Date								
							l "			
Final	Original									
	101 102 103									
L	102						L.			
	103									
ļ	104 105						_	_		Ш
<u> </u>	105			<u> </u>		_			L	Ш
	106	L.		<u></u>			ļ			-
ļ	107	_	_	<u> </u>			_			Н
	108 109			<u> </u>		-	\vdash		_	Н
	110			\vdash		-	_	H	_	Н
<u> </u>	111		\vdash	⊢	\vdash	-	-	┢─	_	-
\vdash	112		\vdash	-	_	_	_	\vdash		Н
	113	Т		l	<u> </u>	<u> </u>	T	Г	Г	Н
	114						Ľ			
	115									
	116									
	117									
	118				Ш.					<u></u>
	119		_		<u> </u>			_		Ш
	120 121			<u> </u>					<u> </u>	Ш
	121		<u> </u>	<u> </u>	H			-		Н
<u> </u>	122	_	\vdash	_	-	-		H	\vdash	Н
	124	_	\vdash	\vdash	H	-	_	-	\vdash	H
	122 123 124 125 126 127 128		-	-	<u> </u>					
-	126	_	\vdash		-			\vdash		
	127					_				
	128									
	1 120									
	130									
	130 131 132									
<u></u>	132				L_					
	133		_	·	L			\vdash	L	<u> </u>
<u> </u>	133 134 135	<u> </u>	_	\vdash	\vdash	<u> </u>	<u> </u>	<u> </u>	<u> </u>	$\vdash \vdash$
 	135		_	<u> </u>	L			<u> </u>	-	\vdash
<u> </u>	136 137 138	\vdash	-	 	\vdash		<u> </u>	-	-	\vdash
 	138	 	-	ļ	<u> </u>	-	\vdash		H	H
\vdash	139				<u> </u>	-	-			H
\vdash	140	\vdash	Г	m		Т	\vdash		_	Н
	141					Г				П
	142									Ŀ
	143									
	144									
	145			Ш		oxdot	$ldsymbol{ldsymbol{ldsymbol{eta}}}$	L	L	Ш
L	146	\square		$ldsymbol{ldsymbol{\sqcup}}$		<u> </u>	<u> </u>	<u> </u>	_	Ш
	147	_		<u> </u>		<u> </u>	<u> </u>	_	_	\vdash
<u> </u>	148	_		<u> </u>	\vdash	\vdash	ļ	ļ	<u> </u>	Ш
_	149		<u> </u>	\vdash			\vdash	-	-	Н
L	150	Щ.	L_			L	Щ.		L	Ш